

Amendments to the Specification:

Please replace the present "Abstract" with the following paragraph:

ABSTRACT OF THE DISCLOSURE

There is disclosed a method of selecting, in real time, a soil stabilizing protocol for clay-bearing soils occurring in construction sites, ~~comprising the steps of:~~ The method includes the steps of: obtaining soil conductivity data values at ~~selected~~ locations within a defined site without disturbing the surface of the soil; correlating the soil conductivity data values with corresponding estimates of soluble sulfate levels; recommending a calcium-based soil stabilizing protocol if the estimated level of soluble sulfates is less than a predetermined threshold; and performing a laboratory analysis of soil samples from selected portions of the defined site ~~wherein~~ when the estimated soluble sulfate concentration equals or exceeds the predetermined threshold.